

Special Section

Anoxic Basins and Sapropel Deposition in the Eastern Mediterranean: Past and Present

Edited by

M.B. Cita^a, G.J. de Lange^b and E. Olausson^c

^a*Department of Earth Sciences, University of Milan, via Mangiagalli 34, 20133 Milan, Italy*

^b*Institute of Earth Sciences, University of Utrecht, Department of Geochemistry, Budapestlaan 4, 3584 CD Utrecht, The Netherlands*

^c*Institute of Palaeoceanography, Hultvagen 9, S-44006 Gräbo, Sweden*

CONTENTS

Anoxic basins and sapropel deposition in the Eastern Mediterranean: past and present	
M.B. Cita (Milan, Italy), G.J. de Lange (Utrecht, The Netherlands) and E. Olausson (Gräbo, Sweden)	1
Facies analysis of Pleistocene sediments from the Bannock Basin area: A key to the reconstruction of its tectonic evolution	
V. Nolli, M. Redaelli and M.B. Cita (Milan, Italy)	5
Tephra layers in Bannock Basin (Eastern Mediterranean)	
L. Vezzoli (Milan, Italy)	21
Origin and differentiation of clay minerals in pelagic sediments and sapropels of the Bannock Basin (Eastern Mediterranean)	
L. Tomadin (Urbino, Italy) and V. Landuzzi (Bologna, Italy)	35
Carbon and oxygen isotope composition of foraminifera in two cores from the Bannock Basin area, eastern Mediterranean	
E. Olausson (Gräbo, Sweden)	45
Eastern Mediterranean palaeoclimates from 26 to 5 ka B.P. documented by pollen and isotopic analysis of a core in the anoxic Bannock Basin	
R. Cheddadi and M. Rossignol-Strick (Montpellier, France) and M. Fontugne (Gif-sur-Yvette, France)	53
Evidence of relief inversion from the rim-syncline of Bannock Basin	
M.B. Cita and F.S. Aghib (Milan, Italy)	67
Deep mid-water bacterial mats from anoxic basins of the Eastern Mediterranean	
E. Erba (Milan, Italy)	83
Hardground formation in the Bannock Basin, Eastern Mediterranean	
F.S. Aghib (Milan, Italy) and D. Bernoulli and H. Weissert (Zürich, Switzerland)	103
Determination of inorganic sulphur speciation with polarographic techniques: Some preliminary results for recent hypersaline anoxic sediments	
E. Henneke (Utrecht, The Netherlands), G.W. Luther III (Lewes, Del., U.S.A.) and G.J. de Lange (Utrecht, The Netherlands)	115
Possible diagenetic mobilization of barium in sapropelic sediment from the eastern Mediterranean	
B.J.H. van Os, J.J. Middelburg and G.J. de Lange (Utrecht, The Netherlands)	125
Geochemistry of eastern Mediterranean sediments: Primary sediment composition and diagenetic alterations	
P.A. Pruyssers, G.J. de Lange and J.J. Middelburg (Utrecht, The Netherlands)	137
The occurrence and significance of Pleistocene and Upper Pliocene sapropels in the Tyrrhenian Sea	
K.-C. Emeis (Kiel, F.R.G.), A. Camerlenghi (Milan, Italy), J.A. McKenzie (Zürich, Switzerland), D. Rio (Padova, Italy) and R. Sprovieri (Palermo, Italy)	155